



Armed Forces College of Medicine AFCM



Blood Gases Analysis

Assistant lecturer

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Basic concepts

- What are the gases in blood?
- How measured? (partial pressure)
- Acid base balance (buffer systems)
- pH, hydrogen ion.

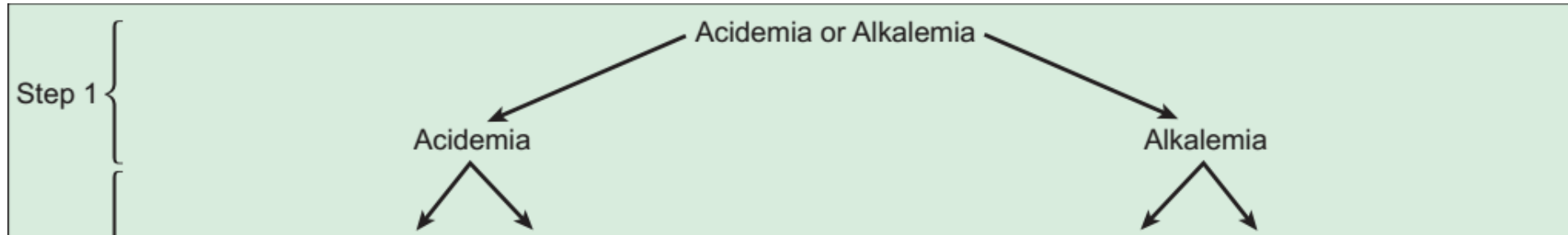
Basic concepts

- Henderson Hasselbalch equation:
 - $\text{pH} = 6.1 + \log (\text{HCO}_3 / \text{CO}_2)$

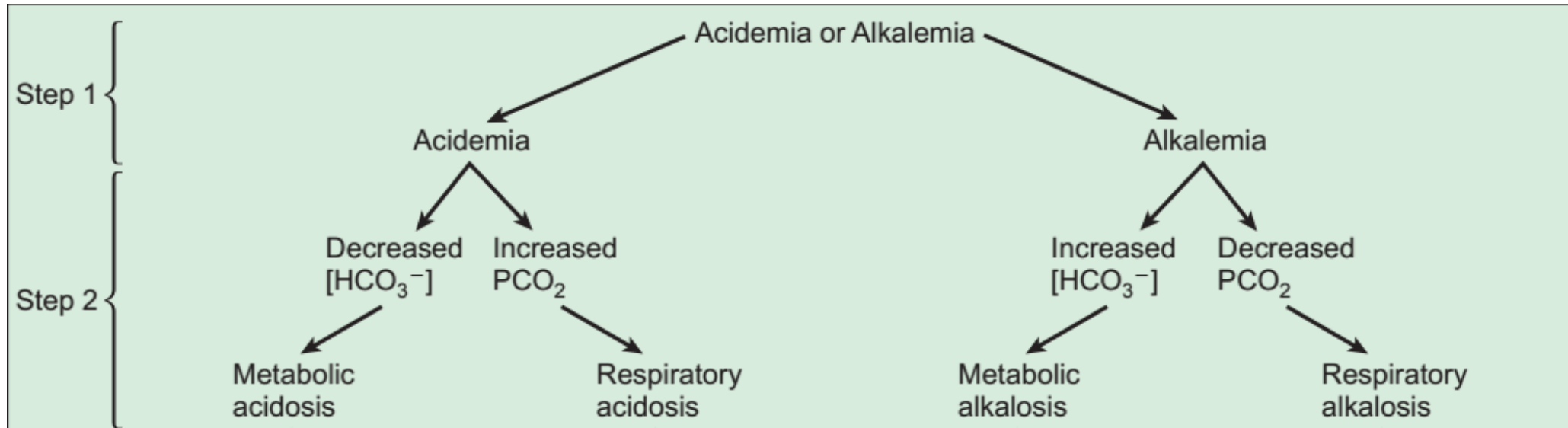
Normal Values

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PO ₂	70 – 90 mmHg
pH	7.35 – 7.45
PCO ₂	35 – 45
HCO ₃	20 – 26

Analysis



Analysis



Analysis

